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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,212	12/02/2003	Edward J. Koeneman	58482-010101	5429
	7590 11/07/200 TOPHER DARROW, 1	EXAMINER		
GREENBERG TRAURIG LLP SUITE 400E 2450 COLORADO AVENUE SANTA MONICA, CA 90404			FOREMAN, JONATHAN M	
			ART UNIT	PAPER NUMBER
			3736	
			MAIL DATE	DELIVERY MODE
			11/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/727,212	KOENEMAN ET AL.			
		Examiner	Art Unit			
		JONATHAN ML FOREMAN	3736			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. o period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 12 J	une 2008				
-		s action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥/ك	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims	, , , , , , , , , , , , , , , , , , , ,				
•	4)⊠ Claim(s) <u>1-28,45-80,82 and 83</u> is/are pending in the application.					
	4a) Of the above claim(s) <u>1-28 and 45-68</u> is/are withdrawn from consideration.					
′=	☐ Claim(s) <u>82</u> is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) 69 and 74-77 is/are rejected.					
-	Claim(s) 70-73,78-80 and 83 is/are objected to					
8)[_]	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are: a) ☐ acc	epted or b) \square objected to by the $\mathfrak l$	Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority เ	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Inform	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Claim Objections

1. Claims 76 and 78 are objected to because of the following informalities: claim 76 recites "the microprocessor", however only a "computer processor" has been set forth; claim 78 recites "the at least one force sensor" but fails to set forth at least one force sensor. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 69 and 77, are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,112,296 to Beard et al.

In regard to claims 69 and 77, Beard et al. disclose at least one EMG sensor (Col. 4, line 55) for detecting self-actuation of a neuromuscular system; at least one joint position sensor (8) for detecting self-actuation of a joint; a computer processor (Col. 5, line 59 - Col. 6, line 17) for implementing a protocol responsive when self-actuation or attempted self-actuation is detected by the at least one EMG sensor but is not detected by the at least one joint position sensor; and a motion causing device (10) for assisting the at least one joint in movement, said motion causing device following the protocol implemented by the computer processor (Col. 3, lines 35 – 38). The system includes a display (63) for depicting electrical activity from the EMG sensor.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 74, 75 and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,112,296 to Beard et al. in view of U.S. Patent No. 6,010,468 to Grove et al.

In regard to claims 74, 75 and 76, Beard et al. discloses a motion causing device, but fails to disclose the motion causing device being an air-muscle that shortens in length upon inflation to cause the joint to pivot and includes at least one port for supplying air. Nor does Beard et al. disclose a microprocessor for controlling a valve to supply air to the air-muscle. Grove et al. disclose a system for restoring physical function of a neuromuscular system and teach a motion causing device being an air-muscle (133) that shortens in length upon inflation to cause the joint to pivot and includes at least one port for supplying air. Grove et al. teach a microprocessor for controlling a valve for supplying air to the air-muscle (Col. 12, lines 47 - 60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the motion causing device as disclosed by Beard et al. to include an air-muscle as taught by Grove et al. in order to provide the system with an easily controllably motion causing device.

Allowable Subject Matter

6. Claims 70 – 73, 78 – 80 and 83 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 82 is allowed.

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Conclusion

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7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JONATHAN ML FOREMAN whose telephone number is (571)272-4724. The examiner can normally be reached on Monday - Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571)272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. M. F./ Examiner, Art Unit 3736

/Max Hindenburg/ Supervisory Patent Examiner, Art Unit 3736